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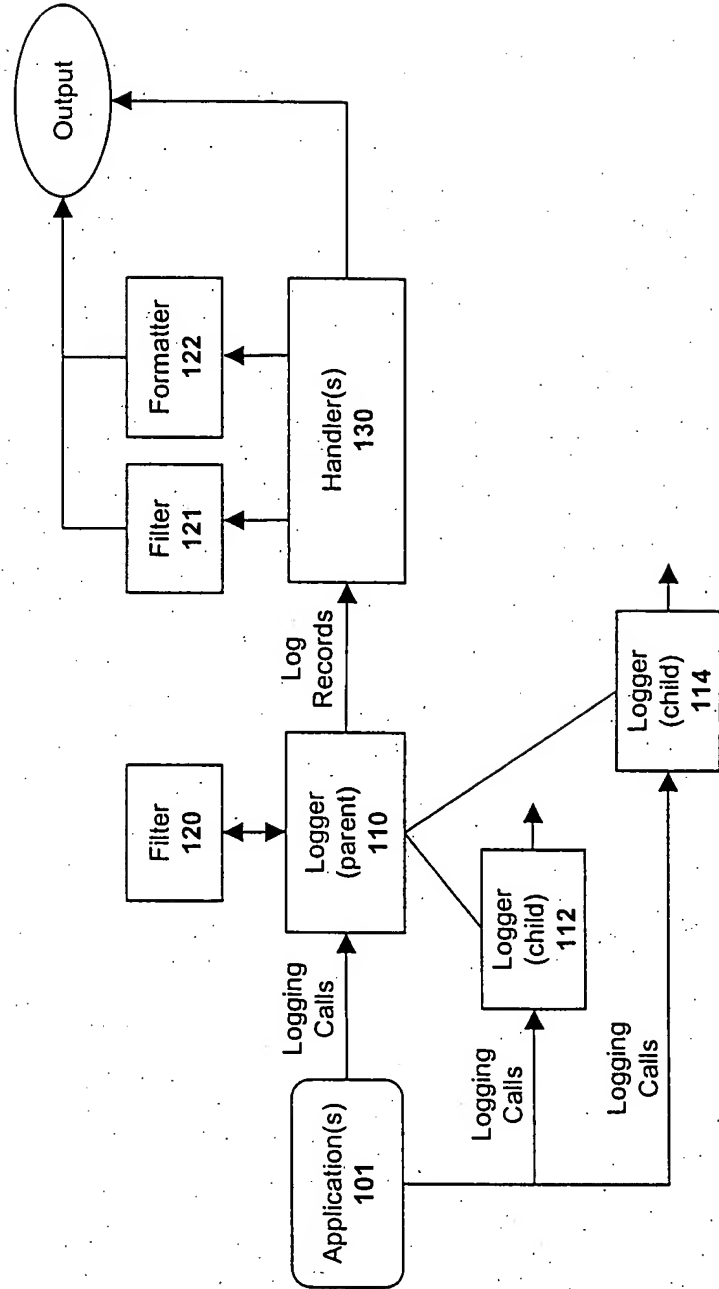


Fig. 1
(Prior Art)

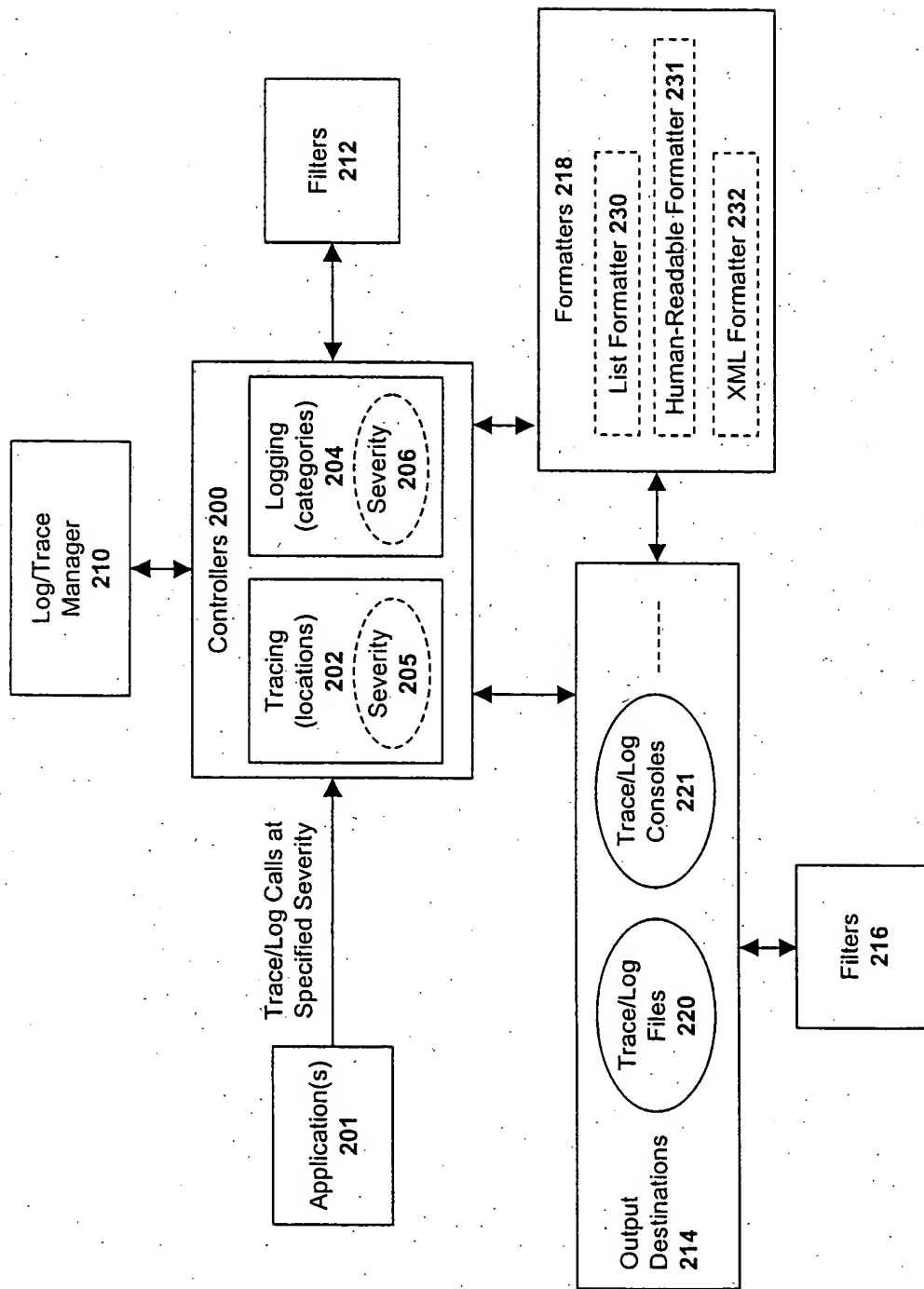


Fig. 2

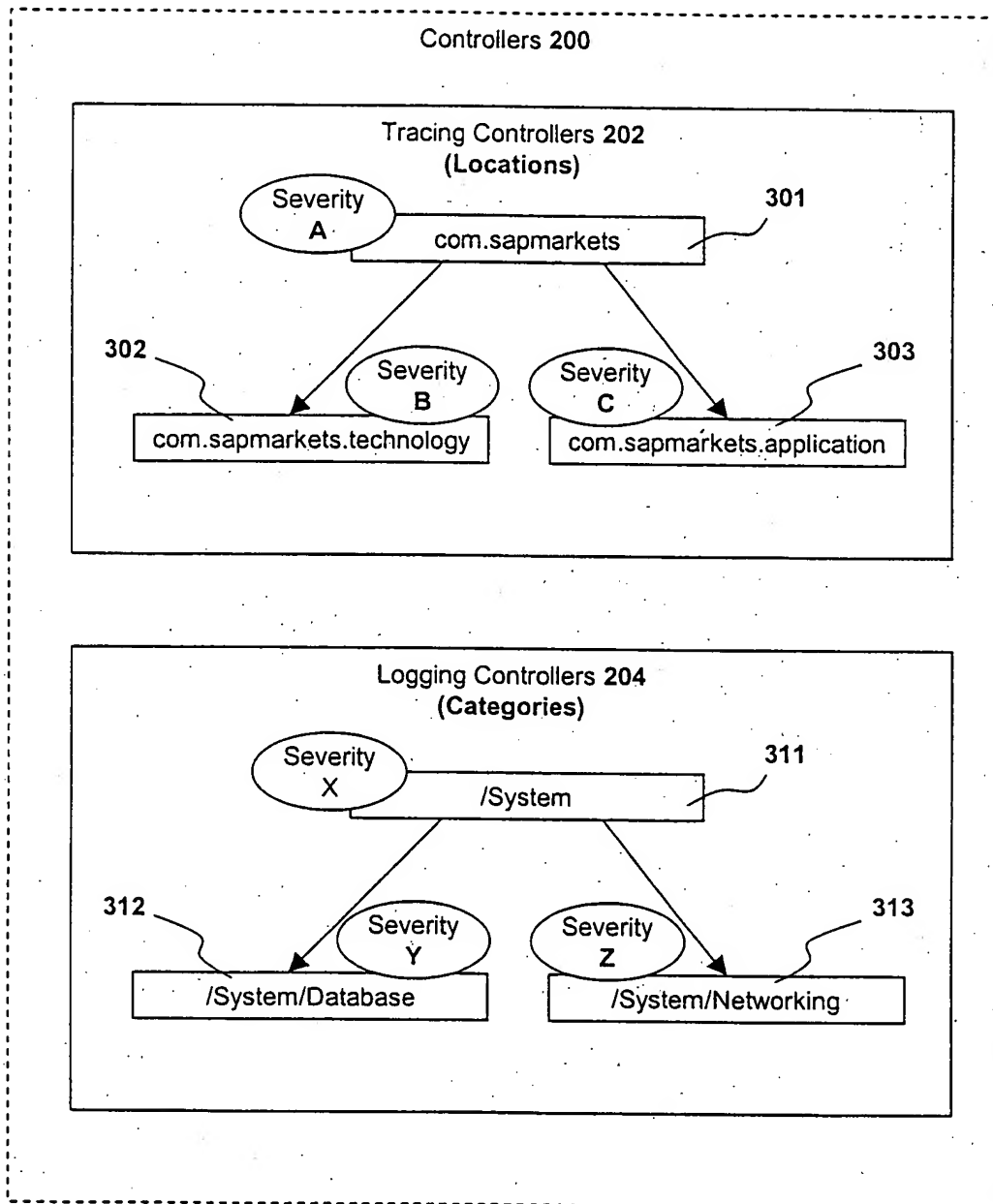


Fig. 3

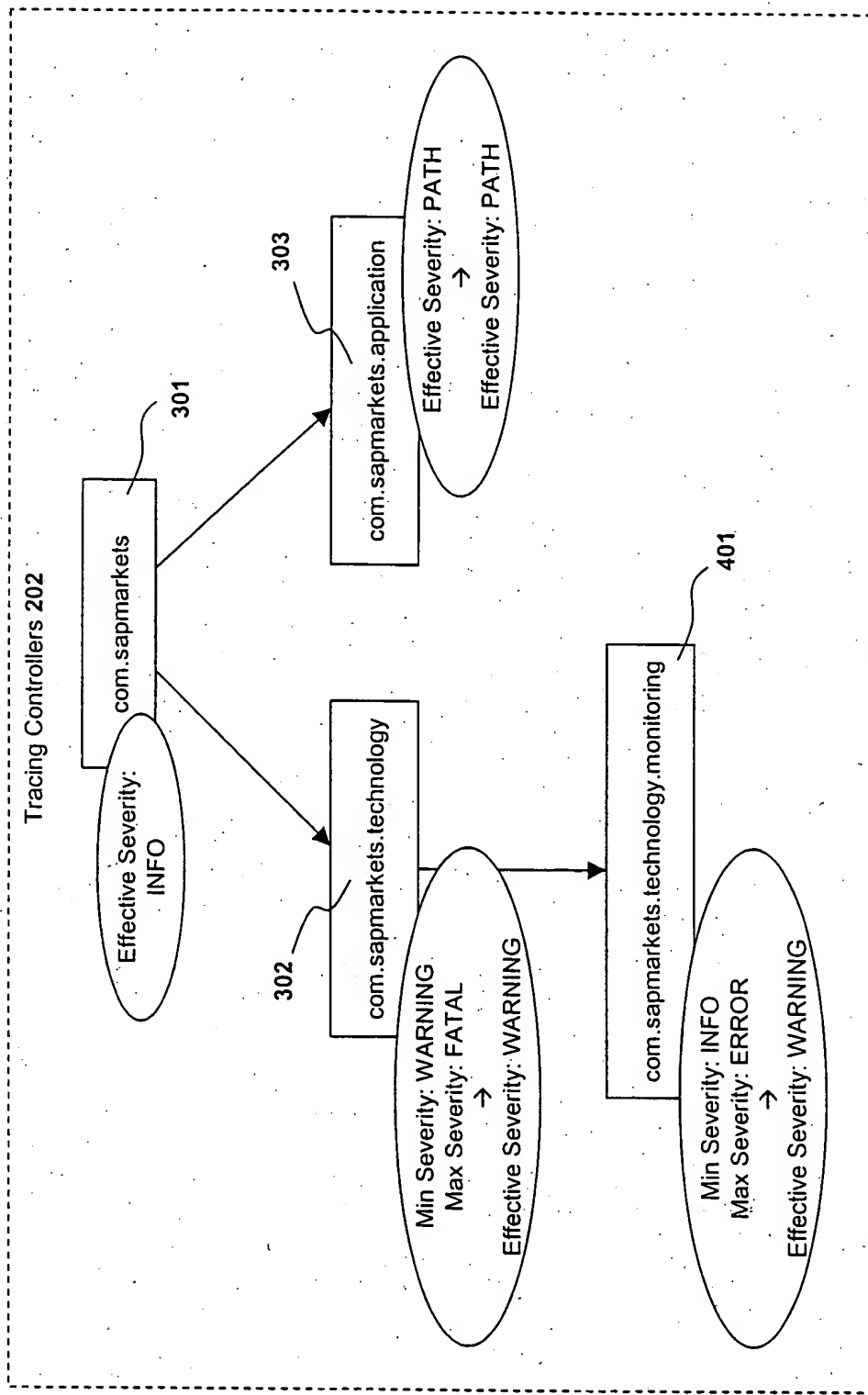


Fig. 4

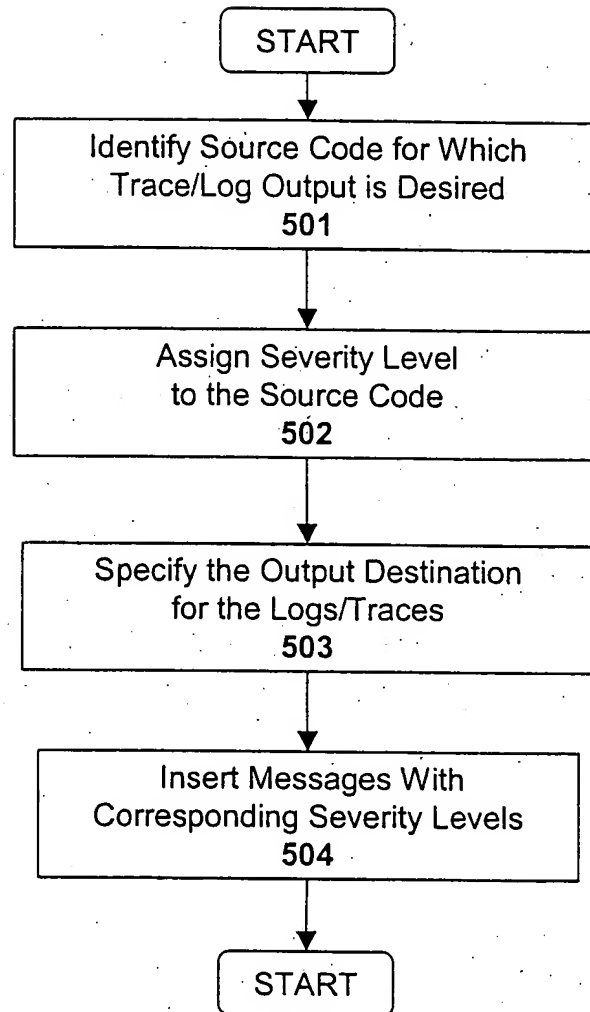


Fig. 5

MIN	0	Minimum restriction
DEBUG	100	For debugging purpose, with extensive and low level information
PATH	200	For tracing the execution flow, e.g., used in the context of entering and leaving a method, looping and branching operations
INFO	300	Informational text, mostly for echoing what has been performed
WARNING	400	Application can recover from anomaly, and fulfill the desired task, but need attention from developer/operator
ERROR	500	Application can recover from error, but cannot fulfill desired task due to the error
FATAL	600	Application cannot recover from error, and the severe situation causes fatal termination
MAX	700	Maximum restriction

Fig. 6a

ALL	0	Output messages of all severity
NONE	701	No messages will be logged

Fig. 6b

710 →
720 →

```
#####Location "com.sapmarkets.usermanagement"  
##### Assign severity threshold to WARNING level  
com.sapmarkets.usermanagement.severity 712 714 716  
= WARNING  
##### Now, specify Console as the destination to 'usermanagement'  
com.sapmarkets.usermanagement.logs 712 722 724  
= ConsoleLog  
700
```

FIG. 7a

```
Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassA.method1[main] Warning: xxxxxxxx ....  
Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassB.method2 [main] Fatal: Unable to ....
```

FIG. 7b


```

805 → com.sapmarkets.usermanagement.severity = WARNING ← 810
##### Now, push messages simultaneously to 2 destinations:
##### a console and an output file
##### represented by a variable notation ← 825 → 830
com.sapmarkets.usermanagement.logs = log[Console], log[File1]

##### Set up a FileLog, for storing trace, with <id>: 'File1'
##### 'C:\\temp\\myTrace.txt' or 'C:/temp/myTrace.txt'
##### Dumping messages with the default format of TraceFormatter
log[File1] = FileLog
log[File1].pattern = C:\\temp\\myTrace.txt
log[File1].formatter = TraceFormatter

835 → ##### Set up a ConsoleLog, with <id>: 'Console'
##### Dumping message with self-defined format of TraceFormatter
log[Console] = ConsoleLog ← 845
log[Console].formatter = formatter[TraceNoDate] ← 840

##### Set up a TraceFormatter, with <id>: 'TraceNoDate'
##### and its pattern starts with the Severity level, and consists no date/timestamp
formatter[TraceNoDate] = TraceFormatter ← 860
formatter[TraceNoDate].pattern = %s: %-30l [%t]: %m ← 855
861 862 863 864 ← 800

```

FIG. 8

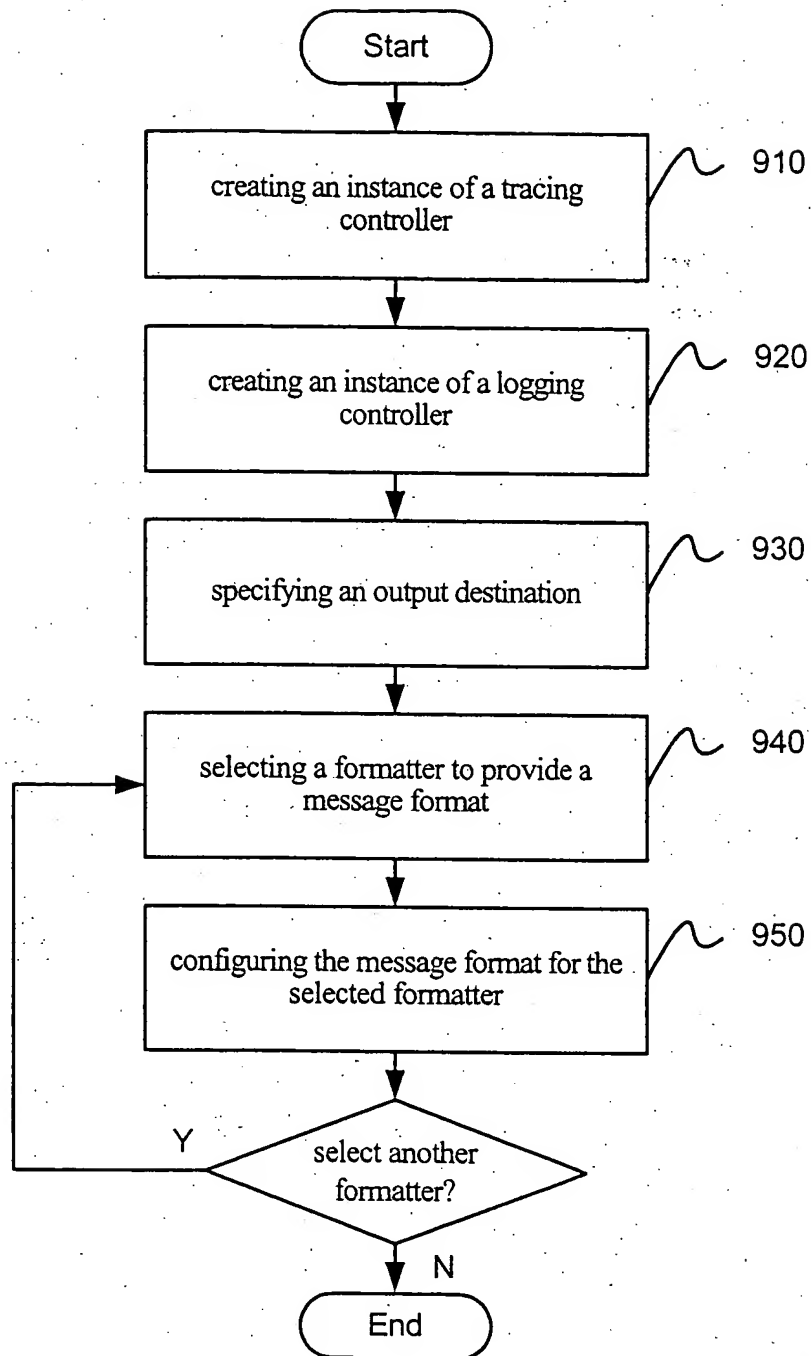


FIG. 9

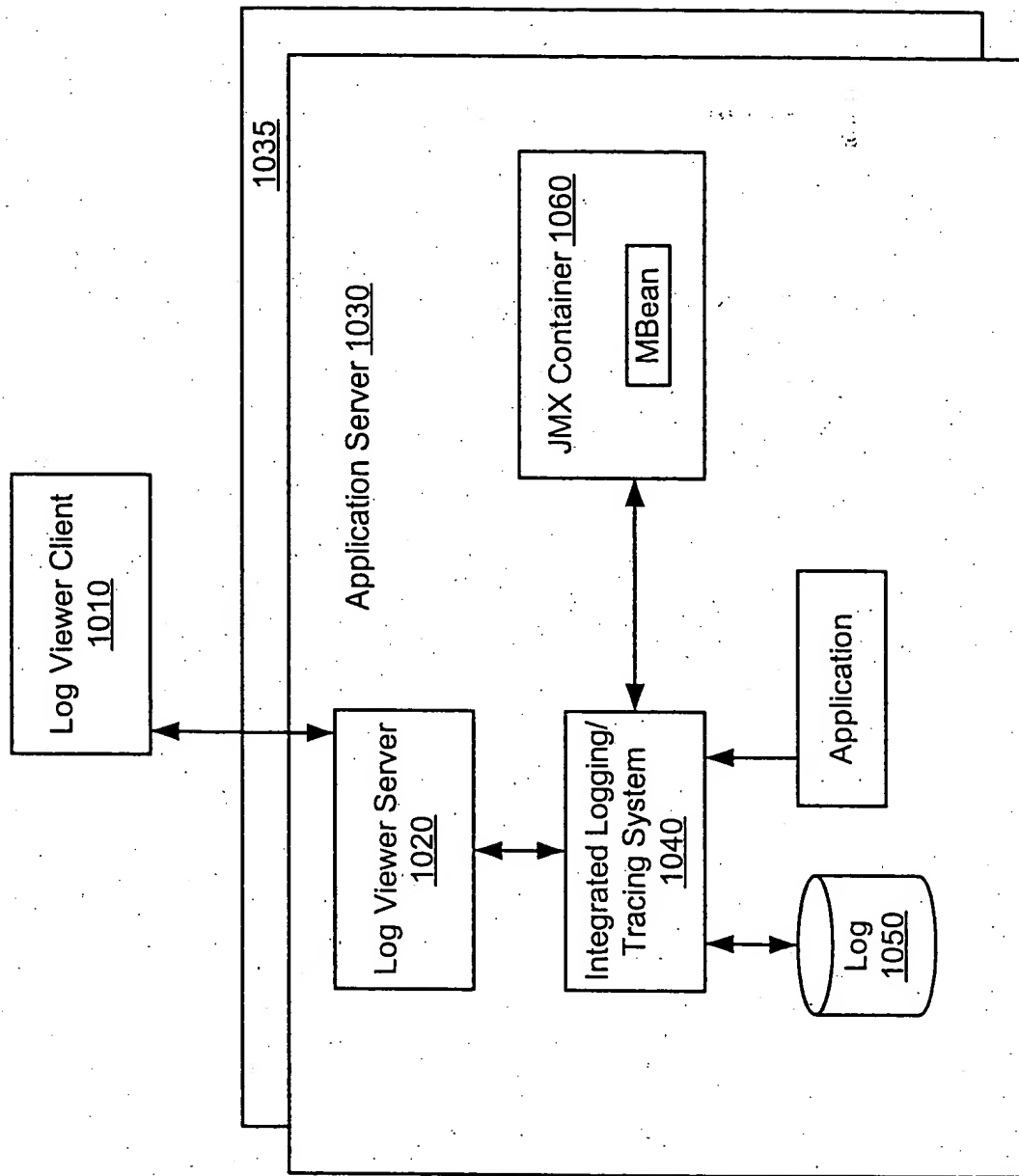


FIG. 10

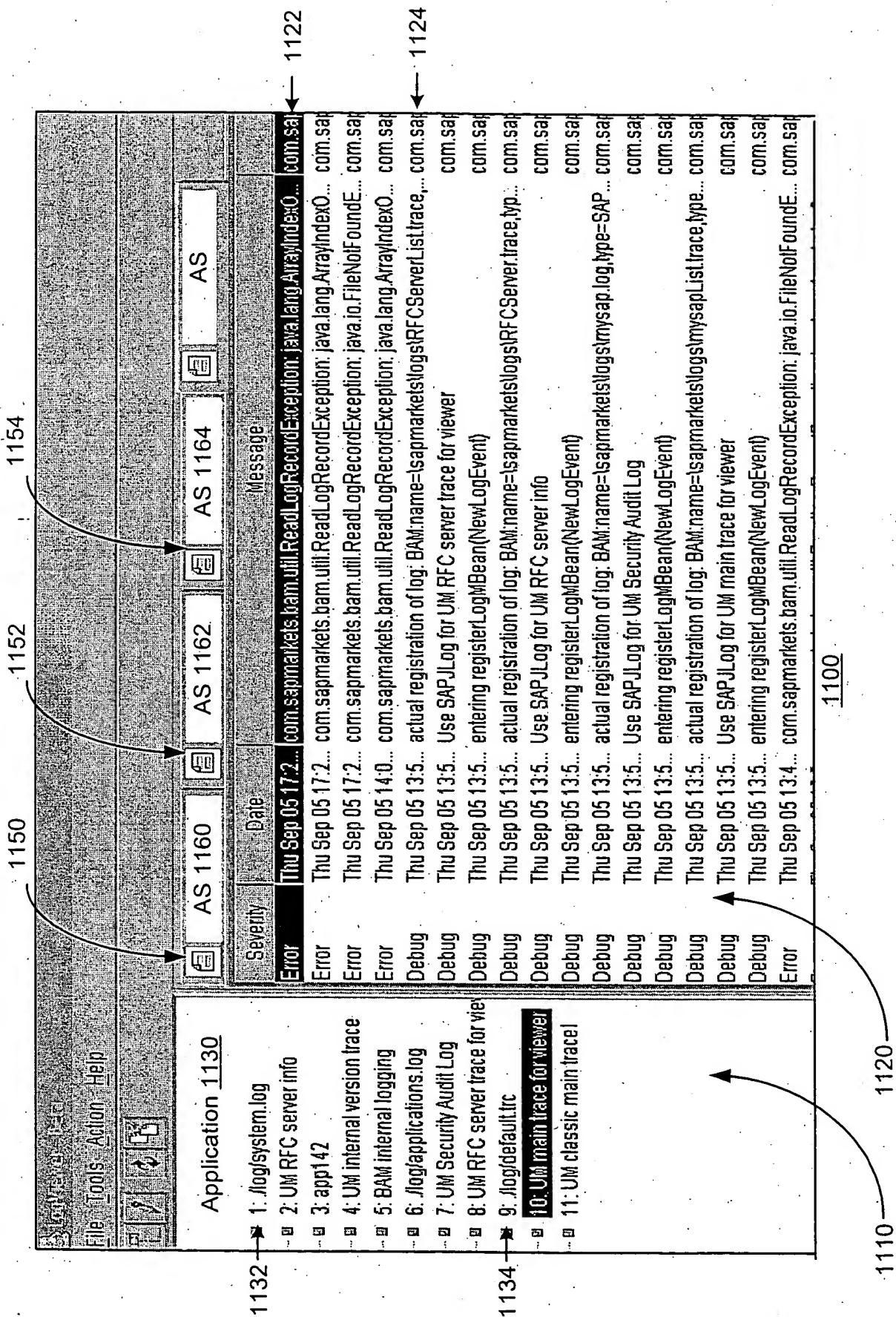


FIG. 11

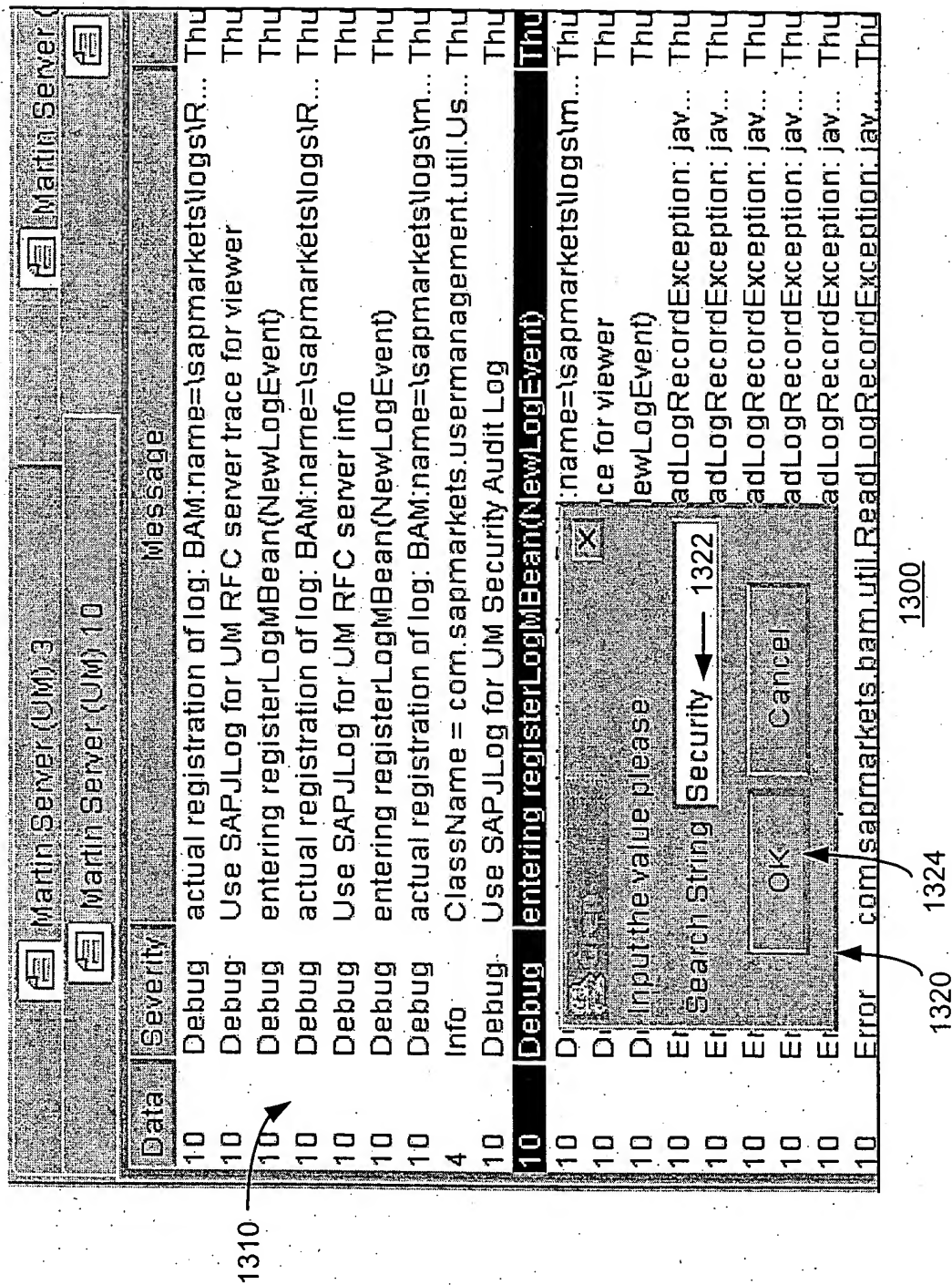


FIG. 13a

1430

AS 1430				AS 1431				AS 1432			
AS 1433				AS 1431 + 1433							
Date	Severity	Message	Location	Date	Severity	Message	Location	Date	Severity	Message	Location
10	Debug	actual registration of log: BAMname=lsapmarketslogsR...	com.sapmarkets.bam.jmxadapter.sa...	Thu Sep 05 13:53:48 PDT...							
10	Debug	Use SAPJLog for UM RFC server trace for viewer		Thu Sep 05 13:53:48 PDT...							
10	Debug	entering registerLogMBean(NewLogEvent)		Thu Sep 05 13:53:48 PDT...							
10	Debug	actual registration of log: BAMname=lsapmarketslogsR...	com.sapmarkets.bam.jmxadapter.sa...	Thu Sep 05 13:53:48 PDT...							
10	Debug	Use SAPJLog for UM RFC server info		Thu Sep 05 13:53:48 PDT...							
10	Debug	entering registerLogMBean(NewLogEvent)		Thu Sep 05 13:53:48 PDT...							
10	Debug	actual registration of log: BAMname=lsapmarketslogsR...	com.sapmarkets.bam.jmxadapter.sa...	Thu Sep 05 13:53:48 PDT...							
4	Info	ClassName = com.sapmarkets.usermanagement.util.Us...	com.mysap.mp.security.utils.Trace	Thu Sep 05 13:53:48 PDT...							
10	Debug	Use SAPJLog for UM Security Audit Log		Thu Sep 05 13:53:48 PDT...							
10	Debug	entering registerLogMBean(NewLogEvent)		Thu Sep 05 13:53:48 PDT...							
10	Debug	actual registration of log: BAMname=lsapmarketslogsR...	com.sapmarkets.bam.jmxadapter.sa...	Thu Sep 05 13:53:48 PDT...							
10	Debug	Use SAPJLog for UM main trace for viewer		Thu Sep 05 13:53:48 PDT...							
10	Debug	entering registerLogMBean(NewLogEvent)		Thu Sep 05 13:53:48 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:46:32 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:39:53 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:39:28 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:39:19 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:10:51 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:09:45 PDT...							
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	com.sapmarkets.bam.logcontroller.i...	Thu Sep 05 13:09:17 PDT...							

1420

1400

FIG. 14

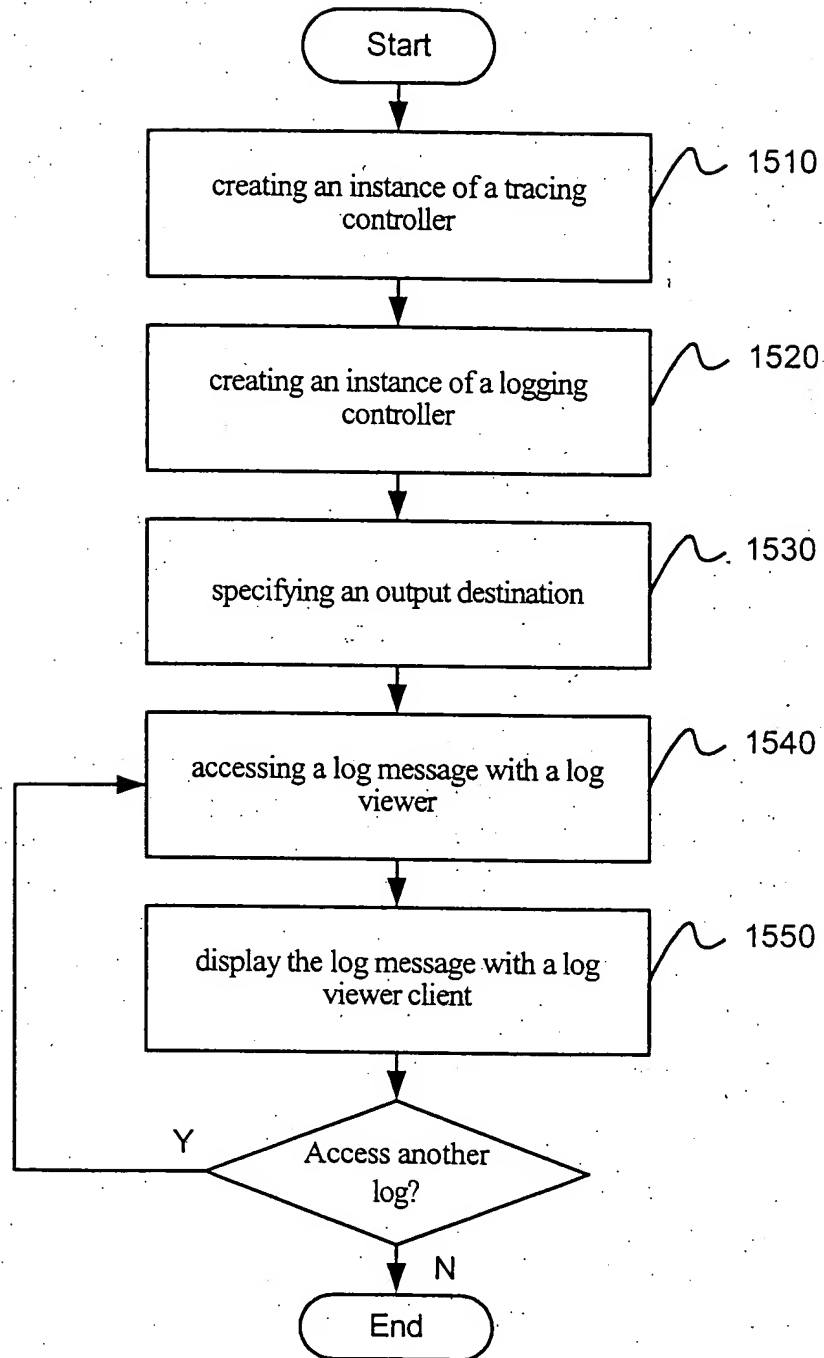


FIG. 15

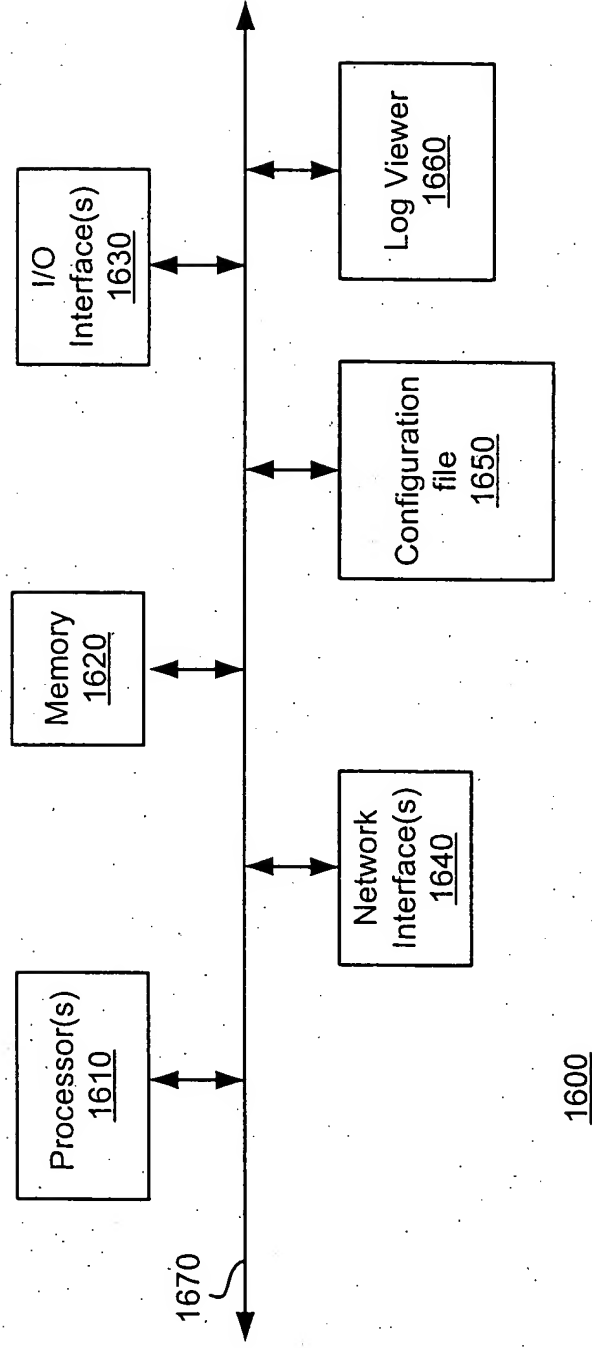


FIG. 16